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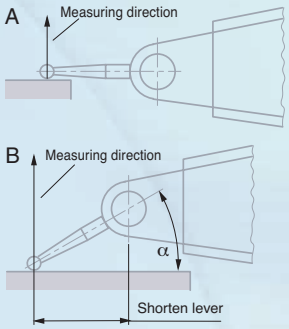
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COMPAC Lever Dial Test Indicators

Essential for the workshop, but also in the inspection room and laboratory – Ideal for comparative measurement on a surface plate – Detect form and position errors – Measure axial and radial runouts, especially.



Technical features:

- Long range up to 3 mm.
- Bi-directional measuring, without reversing lever.
- Continuous clockwise rotation of the pointer in both ways.
- Swivelling probe through 180°.
- Main pivot on oversized, self-aligning angular bearings.
- Dovetail mounting directly machined in the indicator body.
- Dull-chrome plated bezel and housing.
- Rotating dial.
- Insensitive to magnetic fields produced in universal precision mechanics.

Note for use of the COMPAC dial test indicators (lever-type):
When the measuring insert is parallel to the workpiece surface (Fig. A), these dial test indicators give true reading as the amplification factor is 1:1.
In other measuring positions (angle α in Fig. B), the effective lever length changes so that the read value need be corrected. With respect to this, also refer to the instruction manual.

✓ Swiss Made

DIN 2270 and factory standard

Rotating dial

Friction lever system for preventing from overload

Contact points with tungsten carbide ball tips

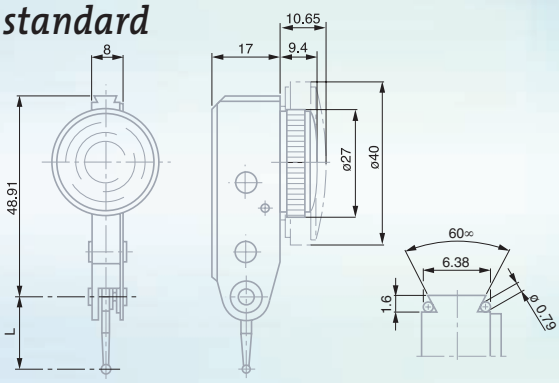
Delivery in a suited plastic case including:
1 x 2 mm dia. contact point
1 x 8 mm dia. rigid stem, L = 15 mm (No. 01840107)
1 x 4 mm dia. rigid stem, L = 15 mm (No. 01840109)

Serial number

Inspection report with a declaration of conformity

Series 210, standard





Inch reading

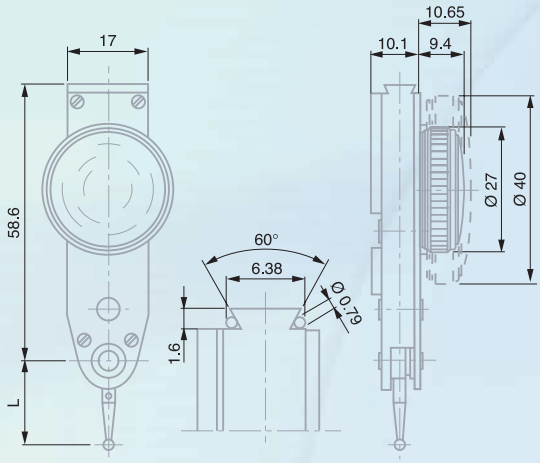
Order Code	Reading in	Total Range in	Travel per Revolution in	Bezel in		Contact Point L in	Total Reading error (in)	Repeat-ability in	Hysteresis in	N
212A	.001	.06	.02	1.063	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
214A	.0005	.06	.02	1.063	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
214GA	.0005	.06	.02	1.575	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
213LA	.0005	.12	.04	1.063	0-20-40	1.44	.001	.00015	.00025	≤ 0.20
213GLA	.0005	.12	.04	1.575	0-20-40	1.44	.001	.00015	.00025	≤ 0.20
215A	.0001	.024	.004	1.063	0-20-40	.72	.0005	.00015	.0001	≤ 0.30
215GA	.0001	.024	.004	1.575	0-20-40	.72	.0005	.00015	.0001	≤ 0.30

Metric reading

Order code	Reading mm	Total Range mm	Travel per Revolution mm	Bezel mm		Contact Point L mm	Total Reading error (µm)	Repeat-ability µm	Hysteresis µm	N
213	0.01	1.5	0.5	27	0-25-50	18	13	3	3	≤ 0.35
213G	0.01	1.5	0.5	40	0-25-50	18	13	3	3	≤ 0.35
212L	0.01	3	1	27	0-50-100	36	26	3	6	≤ 0.20
212GL	0.01	3	1	40	0-50-100	36	26	3	6	≤ 0.20
215	0.002	0.6	0.1	27	0-5-10	18	13	1.5	2.5	≤ 0.30
215G	0.002	0.6	0.1	40	0-5-10	18	13	1.5	2.5	≤ 0.30
215GL	0.002	1.2	0.2	40	0-10-20	36	26	5	5	≤ 0.20
216G	0.001	0.6	0.1	40	0-5-10	18	4	1.5	1.5	≤ 0.30

Series 220, perpendicular





Inch reading

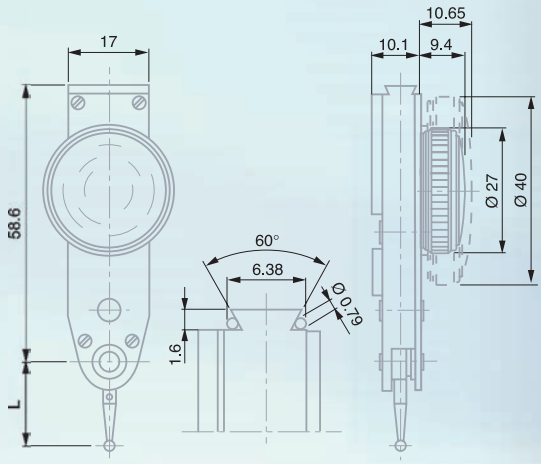
Order Code	Reading in	Total Range in	Travel per Revolution in	Bezel in		Contact Point **L** in	Total Reading error (in)	Repeat-ability in	Hysteresis in	N
224A	.0005	.06	.02	1.063	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
224GA	.0005	.06	.02	1.575	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
223LA	.0005	.12	.04	1.063	0-20-40	1.44	.001	.00015	.00025	≤ 0.20
223GLA	.0005	.12	.04	1.575	0-20-40	1.44	.001	.00015	.00025	≤ 0.20
225A	.0001	.024	.004	1.063	0-20-40	.72	.0005	.0001	.00015	≤ 0.30
225GA	.0001	.024	.004	1.575	0-20-40	.72	.0005	.0001	.00015	≤ 0.30

Metric reading

Order Code	Reading mm	Total Range mm	Travel per Revolution mm	Bezel mm		Contact Point **L** mm	Total Reading error (µm)	Repeat-ability µm	Hysteresis µm	N
223	0.01	1.5	0.5	27	0-25-50	18	13	3	3	≤ 0.35
223G	0.01	1.5	0.5	40	0-25-50	18	13	3	3	≤ 0.35
222L	0.01	3	1	27	0-50-100	36	26	3	6	≤ 0.20
222GL	0.01	3	1	40	0-50-100	36	26	3	6	≤ 0.20
225	0.002	0.6	0.1	27	0-5-10	18	13	1.5	2.5	≤ 0.30
225G	0.002	0.6	0.1	40	0-5-10	18	13	1.5	2.5	≤ 0.30

Series 230, parallel





- ✓
- DIN 2270 and factory standard
- Rotating dial
- Friction lever system for preventing from overload
- Contact points with tungsten carbide ball tips
- Delivery in a suited plastic case including:
  1 x 2 mm dia. contact point
  1 x 8 mm dia. rigid stem, L = 15 mm (No. 01840107)
  1 x 4 mm dia. rigid stem, L = 15 mm (No. 01840109)
- Serial number
- Inspection report with a declaration of conformity

Inch reading

Order Code	Reading in	Total Range in	Travel per Revolution in	Bezel in		Contact Point **L** in	Total Reading error (in)	Repeat-ability in	Hysteresis in	N
234A	.0005	.06	.02	1.063	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
234GA	.0005	.06	.02	1.575	0-10-20	.72	.0005	.00015	.00015	≤ 0.35
233LA	.0005	.12	.04	1.063	0-20-40	1.44	.001	.00015	.00025	≤ 0.20
233GLA	.0005	.12	.04	1.575	0-20-40	1.44	.001	.00015	.00025	≤ 0.20
235A	.0001	.024	.004	1.063	0-20-40	.72	.0005	.0001	.00015	≤ 0.30
235GA	.0001	.024	.004	1.575	0-20-40	.72	.0005	.0001	.00015	≤ 0.30

Metric reading

Order Code	Reading mm	Total Range mm	Travel per Revolution mm	Bezel mm		Contact Point **L** mm	Total Reading error (µm)	Repeat-ability µm	Hysteresis µm	N
233	0.01	1.5	0.5	27	0-25-50	18	13	3	3	≤ 0.35
233G	0.01	1.5	0.5	40	0-25-50	18	13	3	3	≤ 0.35
232L	0.01	3	1	27	0-50-100	36	26	6	3	≤ 0.20
232GL	0.01	3	1	40	0-50-100	36	26	6	3	≤ 0.20
235	0.002	0.6	0.1	27	0-5-10	18	13	1.5	2.5	≤ 0.30
235G	0.002	0.6	0.1	40	0-5-10	18	13	1.5	2.5	≤ 0.30

✓

DIN 2270 and factory standard

Rotating dial

Friction lever system for preventing from overload

Contact points with tungsten carbide ball tips

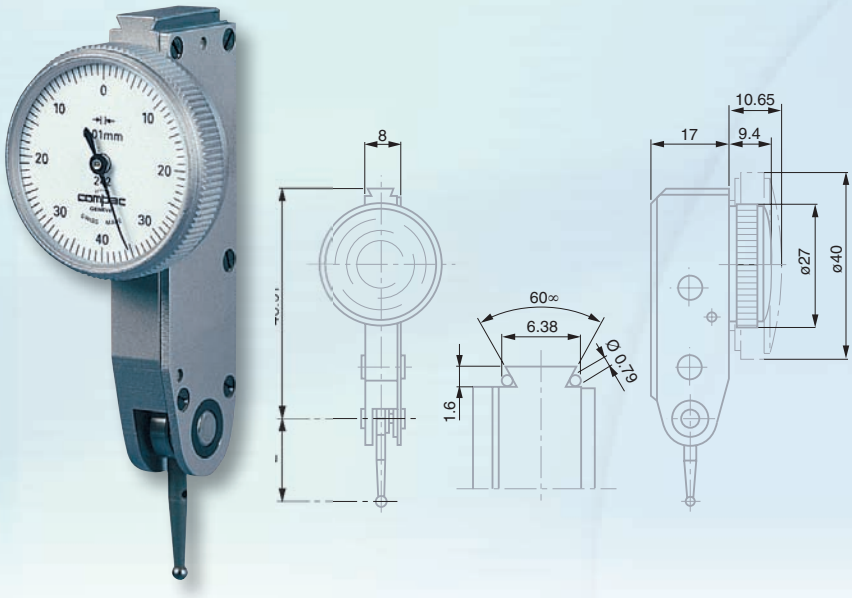
Delivery in a suited plastic case including:
1 x 2 mm dia. contact point
1 x 8 mm dia. rigid stem, L = 15 mm (No. 01840107)
1 x 4 mm dia. rigid stem, L = 15 mm (No. 01840109)

Serial number

Inspection report with a declaration of conformity

Series 240, with reduced range

One-Revolution



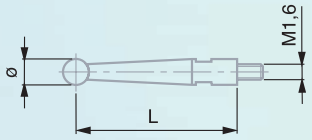
Inch reading

Order Code	Reading in	Total Range in	Bezel in		Contact Point **L** in	Total Reading error (in)	Repeat-ability in	Hysteresis in	N
244A	.0005	.030	1.063	0-15-0	.6754	.0005	.00015	.00015	≤ 0.25
244GA	.0005	.030	1.575	0-15-0	.6754	.0005	.00015	.00015	≤ 0.25
244LA	.0005	.020	1.063	0-10-0	1.800	.0005	.00015	.00015	≤ 0.10
244GLA	.0005	.020	1.575	0-10-0	1.800	.0005	.00015	.00015	≤ 0.10
245A	.0001	.008	1.063	0-4-0	.7200	.00015	.00006	.00008	≤ 0.25
245GA	.0001	.008	1.575	0-4-0	.7200	.00015	.00006	.00008	≤ 0.25

Metric reading

Order Code	Reading mm	Total Range mm	Bezel mm		Contact Point **L** mm	Total Reading error (µm)	Repeat-ability µm	Hysteresis µm	N
242	0.01	0.8	27	0-40-0	18	13	3	3	≤ 0.25
242G	0.01	0.8	40	0-40-0	18	13	3	3	≤ 0.25
243L	0.01	0.5	27	0-25-0	45	13	3	3.5	≤ 0.10
243GL	0.01	0.5	40	0-25-0	45	13	3	3.5	≤ 0.10
245	0.002	0.2	27	0-10-0	18	4	1.5	2	≤ 0.25
245G	0.002	0.2	40	0-10-0	18	4	1.5	2	≤ 0.25

Contact Points for Lever Dial Test Indicators



✓ Tungsten carbide or ruby ball tips

M1,6 coupling thread

Standard contact points mounted on all dial test indicators can easily be replaced by those having a same length, but with a different diameter.

Inch reading

Carbide Ball Tips

COMPAC		TESA	mm	**L** in
4/240A-84	240A084	**01866010**	0.8	.6754
4/240A-82	240A082	**01866007**	2	.6754
4/240A-83	240A083	**01866017**	3	.6754
4/210A-84	210A084	**01866011**	0.8	.72
4/210A-82	210A082	**01866005**	2	.72
4/210A-83	210A083	**01866018**	3	.72
4/210LA-84	210LA084	**01866024**	0.8	1.44
4/210LA-82	210LA082	**01866009**	2	1.44
4/210LA-83	210LA083	**01866025**	3	1.44
4/240LA-84	240LA084	**01866012**	0.8	1.8
4/240LA-82	240LA082	**01866008**	2	1.8
4/240LA-83	240LA083	**01866019**	3	1.8

Metric reading

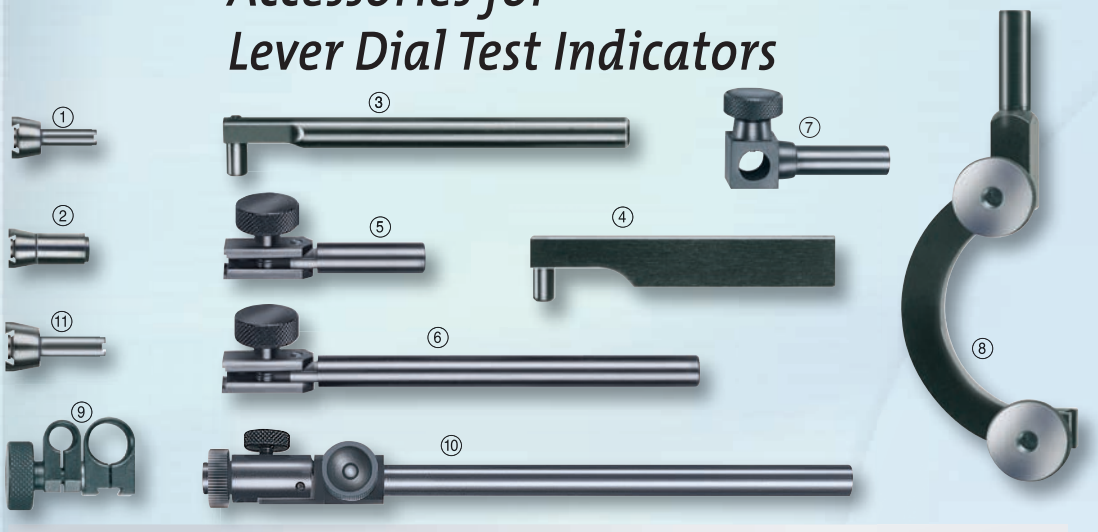
Carbide Ball Tips

Ruby Ball Tips

Compac		TESA	Compac		New	mm	**L** mm
4/210-84	210084	**01866014**	÷	÷	÷	0.8	18
4/210-82	210082	**01866003**	4/210-82R	210082R	**01866026**	2	18
4/210-83	210083	**01866021**	÷	÷	÷	3	18
4/210L-84	210L084	**01866016**	÷	÷	÷	0.8	36
4/210L-82	210L082	**01866004**	4/210L-82R	210L082R	**01866027**	2	36
4/210L-83	210L083	**01866023**	÷	÷	÷	3	36
4/240L-84	240L084	**01866015**	÷	÷	÷	0.8	45
4/240L-82	240L082	**01866006**	4/240L-82R	240L082R	**01866028**	2	45
4/240L-83	240L083	**01866022**	÷	÷	÷	3	45

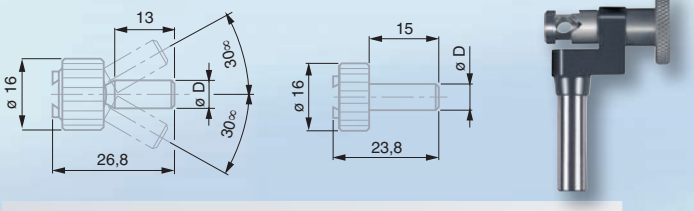
Contact points with COMPAC order codes are available while stock lasts.
Contact points with TESA order number are in stainless steel.

Accessories for Lever Dial Test Indicators



№			mm	№	in
01840104	①	Fixing shank with dovetail clamp	∅ 4	**01850104**	∅ 7/32
01840105	②	Fixing shank with dovetail clamp	∅ 8	**01850105**	∅ 1/4
01840202	③	Cylindrical fixing shank with clamp	∅ 8 x 80 ∅ 5.6	**01850202**	∅ 3/8 x 3.5 ∅ 7/32
01840203	④	Rectangular fixing shank with clamp	13 x 6 x 50 ∅ 5.6	**01850203**	1/2 x 1/4 x 2 ∅ 7/32
01840404	⑤	Short swivel holder with cylindrical shank and dovetail clamp	∅ 8 x 25	**01850404**	∅ 3/8 x 1
01840405	⑥	Long swivel holder with cylindrical shank and dovetail clamp	∅ 8 x 90	**01850405**	∅ 3/8 x 3.5
01840406	⑦	Angle holder with cylindrical shank Clamping bore	∅ 8 x 25 ∅ 8	**01850406**	∅ 3/8 x 1 ∅ 3/8
01840501	⑧	Holder shoulder for perpendicular model with cylindrical shank Clamping point for fixing shank and dovetail clamp	∅ 8 x 25 ∅ 4	**01840501**	∅ 1/4 x 1
01860401	⑨	Double fixing clamp with dovetail clamp	∅ 5.6	**01860401**	
01840407	⑩	Long swivel holder with cylindrical shank and dovetail clamp as well as fine adjustment	∅ 8 x 125		
01860008	⑪	Fixing shank with dovetail clamp	∅ 6		

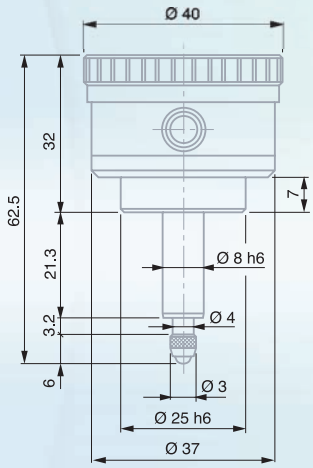
№		D
Dovetail fixing shanks and mounting lug		
01850106	Fixing shank swivelling through ± 30°	∅ 1/4 in
01850107	Rigid fixing shank	∅ 1/4 in
01840106	Fixing shank swivelling through ± 30°	∅ 8 mm
01840107	Rigid fixing shank	∅ 8 mm
01840108	Fixing shank swivelling through ± 30°	∅ 4 mm
01840109	Rigid fixing shank	∅ 4 mm
TA6	Fixed stem	∅ 5/16 in
TMA6	Swivel stem through ± 30°	∅ 5/16 in
TA8	Fixed stem	∅ 3/8 in
TMA8	Swivel stem through ± 30°	∅ 3/8 in



№		Stem	Clamping length
SPT	Rotating holder	8 mm	25 mm
SPTA	Rotating holder	1/4 in	1 in
SPTA-3/16	Rotating holder	3/16 in	1 in
SPTA-3/8	Rotating holder	3/8 in	1 in
SPTA-5/16	Rotating holder	5/16 in	1 in

40 mm Diameter Dial Gages, Perpendicular





	mm	mm	mm	mm		Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
CP 352	0.01	3	3.2	1	0-50-100	14	3	3	0.9
CP 352S	0.01	±0.4	3.2	(1)	4-0-4	9	3	3	0.9
CP 353	0.01	3	3.2	0.5	0-25-50	14	3	3	0.9
CP 355	0.002	3	3.2	0.2	0-10-20	14	2	2.5	0.9
CP 355S	0.002	±0.08	3.2	(0.2)	8-0-8	9	2	2.5	0.9

S: Models with a reduced range.
Since the pointer travels less than one revolution, all reading errors due to the revolution counter are eliminated.

✓

DIN 878 and factory standard

Rotating dial

Full-metal housing.
Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Adjustable tolerance markers.
M2,5 coupling thread for contact points.
Fastening sleeve with a 8h6 or 25h6 diameter

Contact points with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

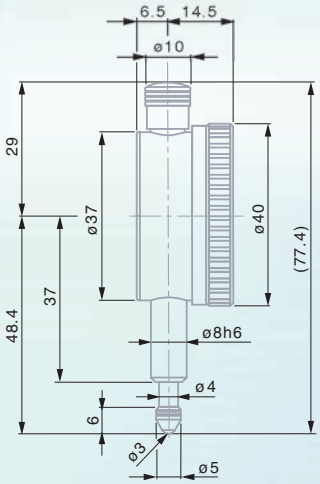
Inspection report with a declaration of conformity

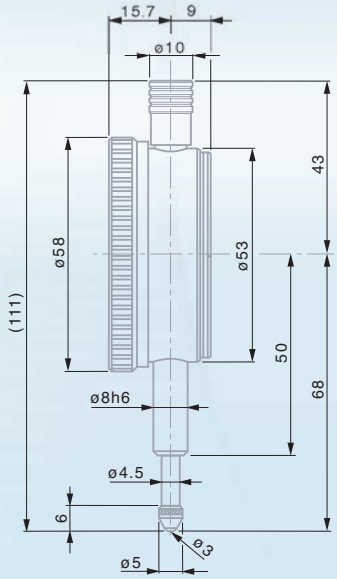
JET Type Dial Gages

- ✓
- DIN 878, NF E 11-050
- Rotating dial
- Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground
- Ajustable tolerance markers. M2,5 coupling thread for contact point
- Contact point with a 3 mm dia. ball tip, already mounted
- Cardboard box
- Serial number
- Inspection report with a declaration of conformity









Inch models

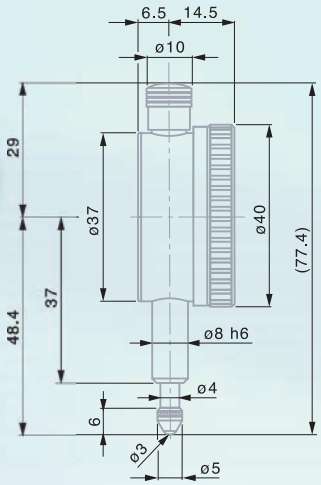
	in	mm	in	in	in		Total Reading error (in)	Repeat-ability in	Hyste-resis in	N
314AK	.0005	40	.200	.212	.020	0 ÷ 10 ÷ 20	.0006	.00015	.00015	≤ 1.4
513AK	.0005	58	.400	.420	.050	0 ÷ 25 ÷ 50	.0007	.00015	.00015	≤ 1.4

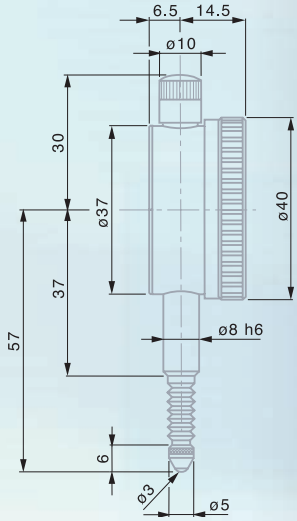
Metric models

	mm	mm	mm	mm	mm		Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
313K	0.01	40	5	5.4	0,5	0 ÷ 25 ÷ 50	14	3	3	≤ 1.4
512K	0.01	58	10	10.5	1	0 ÷ 50 ÷ 100	17	3	3	≤ 1.4

40 mm Diameter Dial Gages
Series 350, reading to 0.01/0.002 mm







Metric models

						Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
	mm	mm	mm	mm					
353	0.01	5	5.4	0.5	0 ÷ 25 ÷ 50	14	3	3	≤ 1.4
353B	0.01	5	5.4	0.5	0 ÷ 25 ÷ 50	14	3	3	≤ 1.4
353E	0.01	5	5.4	0.5	0 ÷ 25 ÷ 50	14	3	3	≤ 1.7
353S	0.01	±0.2	3.3	(0.5)	20 ÷ 0 ÷ 20	9	3	3	≤ 1.4
353SB	0.01	±0.2	3.3	(0.5)	20 ÷ 0 ÷ 20	9	3	3	≤ 1.4
353SE	0.01	±0.2	3.3	(0.5)	20 ÷ 0 ÷ 20	9	3	3	≤ 1.7
355	0.002	3	3.3	0.2	0 ÷ 10 ÷ 20	12	1.5	2	≤ 1.4
355B	0.002	3	3.3	0.2	0 ÷ 10 ÷ 20	12	1.5	2	≤ 1.4
355E	0.002	3	3.3	0.2	0 ÷ 10 ÷ 20	12	1.5	2	≤ 1.7

Inch models

						Total Reading error *(in)*	Repeat-ability *in*	Hyste-resis *in*	N
	in	*in*	*in*	*in*					
352A	*.001*	*.200*	*.212*	*.050*	*0 ÷ 25 ÷ 50*	*.0006*	*.00015*	*.00015*	*≤ 1.4*
352AB	*.001*	*.200*	*.212*	*.050*	*0 ÷ 25 ÷ 50*	*.0006*	*.00015*	*.00015*	*≤ 1.4*
352AE	*.001*	*.200*	*.212*	*.050*	*0 ÷ 25 ÷ 50*	*.0006*	*.00015*	*.00015*	*≤ 1.7*
354A	*.0005*	*.200*	*.212*	*.020*	*0 ÷ 10 ÷ 20*	*.0006*	*.00015*	*.00015*	*≤ 1.4*
354AB	*.0005*	*.200*	*.212*	*.020*	*0 ÷ 10 ÷ 20*	*.0006*	*.00015*	*.00015*	*≤ 1.4*
354AE	*.0005*	*.200*	*.212*	*.020*	*0 ÷ 10 ÷ 20*	*.0006*	*.00015*	*.00015*	*≤ 1.7*
354AS	*.0005*	*±.008*	*.130*	*(.020)*	*8 ÷ 0 ÷ 8*	*.0006*	*.00015*	*.00015*	*≤ 1.4*
354ASB	*.0005*	*±.008*	*.130*	*(.020)*	*8 ÷ 0 ÷ 8*	*.0006*	*.00015*	*.00015*	*≤ 1.4*
354ASE	*.0005*	*±.008*	*.130*	*(.020)*	*8 ÷ 0 ÷ 8*	*.0006*	*.00015*	*.00015*	*≤ 1.7*
355A	*.0001*	*.120*	*.130*	*.010*	*0 ÷ 5 ÷ 10*	*.0005*	*.00006*	*.00008*	*≤ 1.4*
355AB	*.0001*	*.120*	*.130*	*.010*	*0 ÷ 5 ÷ 10*	*.0005*	*.00006*	*.00008*	*≤ 1.4*
355AE	*.0001*	*.120*	*.130*	*.010*	*0 ÷ 5 ÷ 10*	*.0005*	*.00006*	*.00008*	*≤ 1.7*

✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Ajustable tolerance markers. M2,5 coupling thread for contact point

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

Inspection report with a declaration of conformity

B: With bezel lock.
E: Watertight as per DIN 40050, IP64.
S: Models with a reduced range, balanced reading. Since the pointer travels less than one revolution, all reading errors due to the revolution counter are eliminated.

✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Ajustable tolerance markers. M2,5 coupling thread for contact point

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

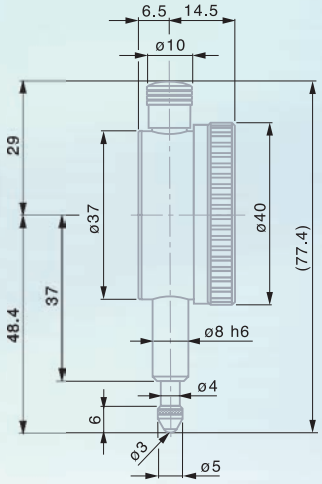
Serial number

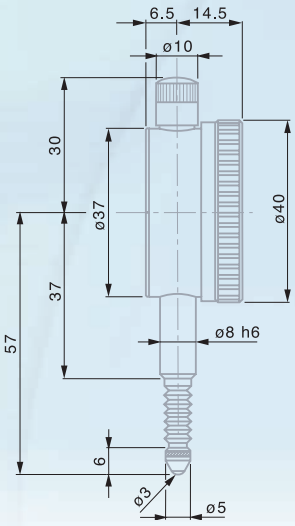
Inspection report with a declaration of conformity

B: With bezel lock.
E: Watertight as per DIN 40050, IP64.
S: Models with a reduced range, balanced reading. Since the pointer travels less than one revolution, all reading errors due to the revolution counter are eliminated.

40 mm Diameter Dial Gages Series 360, reading to 0.002/0.001 mm







Metric models

						Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
	mm	mm	mm	mm					
365S	0.002	±0.08	1.5	(0.2)	8 ÷ 0 ÷ 8	3	1	1	≤ 1.4
365SB	0.002	±0.08	1.5	(0.2)	8 ÷ 0 ÷ 8	3	1	1	≤ 1.4
365SE	0.002	±0.08	1.5	(0.2)	8 ÷ 0 ÷ 8	3	1	1	≤ 1.7
367	0.001	1	1.5	0.1	0 ÷ 5 ÷ 10	5	1	1	≤ 1.4
367B	0.001	1	1.5	0.1	0 ÷ 5 ÷ 10	5	1	1	≤ 1.4
367E	0.001	1	1.5	0.1	0 ÷ 5 ÷ 10	5	1	1	≤ 1.7
367S	0.001	±0.04	1.5	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.4
367SB	0.001	±0.04	1.5	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.4
367SE	0.001	±0.04	1.5	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.7

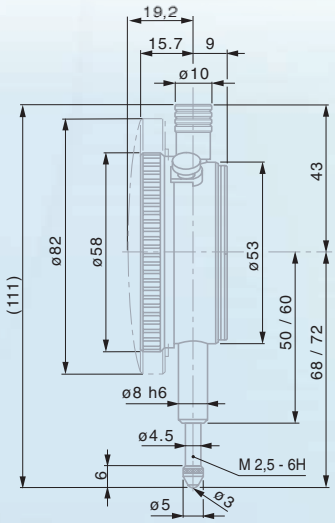
Inch models

						Total Reading error *(in)*	Repeat-ability *in*	Hyste-resis *in*	N
	in	*in*	*in*	*in*					
367A	*.00005*	*.050*	*.060*	*.005*	*0 ÷ 2.5 ÷ 5*	*.0002*	*.00004*	*.00004*	*≤ 1.4*
367AB	*.00005*	*.050*	*.060*	*.005*	*0 ÷ 2.5 ÷ 5*	*.0002*	*.00004*	*.00004*	*≤ 1.4*
367AE	*.00005*	*.050*	*.060*	*.005*	*0 ÷ 2.5 ÷ 5*	*.0002*	*.00004*	*.00004*	*≤ 1.7*
367AS	*.00005*	*±.002*	*.060*	*(.005)*	*2 ÷ 0 ÷ 2*	*.0001*	*.00003*	*.00003*	*≤ 1.4*
367ASB	*.00005*	*±.002*	*.060*	*(.005)*	*2 ÷ 0 ÷ 2*	*.0001*	*.00003*	*.00003*	*≤ 1.4*
367ASE	*.00005*	*±.002*	*.060*	*(.005)*	*2 ÷ 0 ÷ 2*	*.0001*	*.00003*	*.00003*	*≤ 1.7*

58/82 mm Diameter Dial Gages
Series 531, reading to 0.1 mm







✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Ajustable tolerance markers (models with a 58 mm dial diameter only).
M2,5 coupling thread for contact point.

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

Inspection report with a declaration of conformity

Metric models

	mm	mm	mm	mm	mm		Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
531	0.1	58	10	10.5	5	0 ÷ 2.5 ÷ 5	35	3	10	≤ 1.5
531B	0.1	58	10	10.5	5	0 ÷ 2.5 ÷ 5	35	3	10	≤ 1.5
531G	0.1	82	10	10.5	5	0 ÷ 2.5 ÷ 5	35	3	10	≤ 1.5
531GB	0.1	82	10	10.5	5	0 ÷ 2.5 ÷ 5	35	3	10	≤ 1.5

B: With bezel lock.
G: Large dial having a 82 mm diameter.

58/82 mm Diameter Dial Gages
Series 532, reading to 0.01 mm

✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

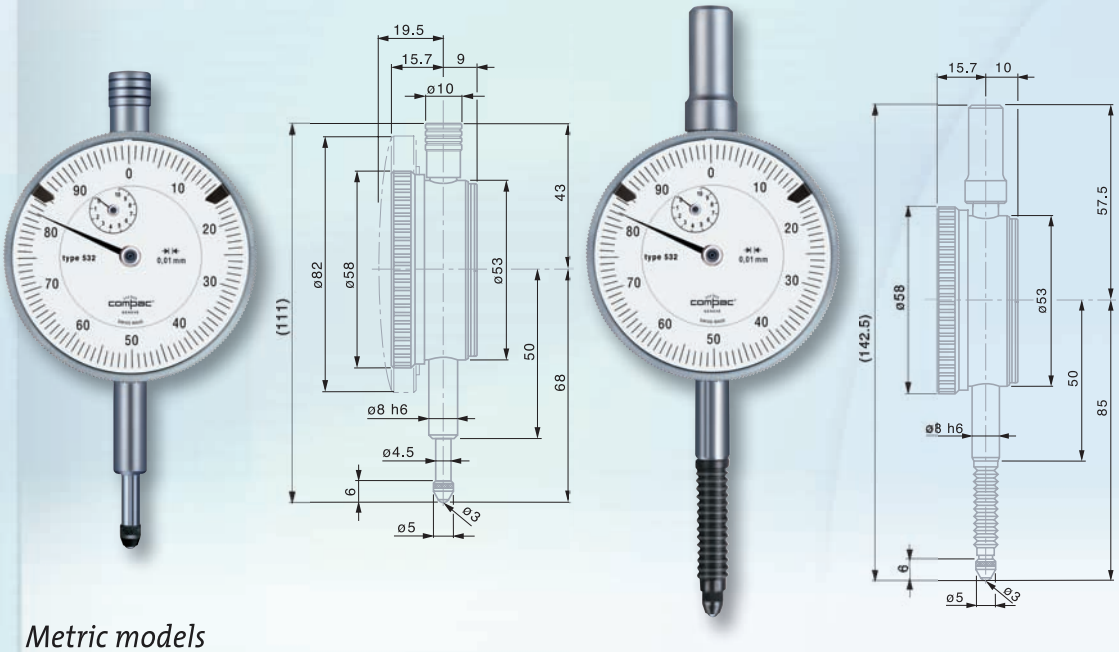
Ajustable tolerance markers (models with a 58 mm dial diameter only).
M2,5 coupling thread for contact point.

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

Inspection report with a declaration of conformity



Metric models

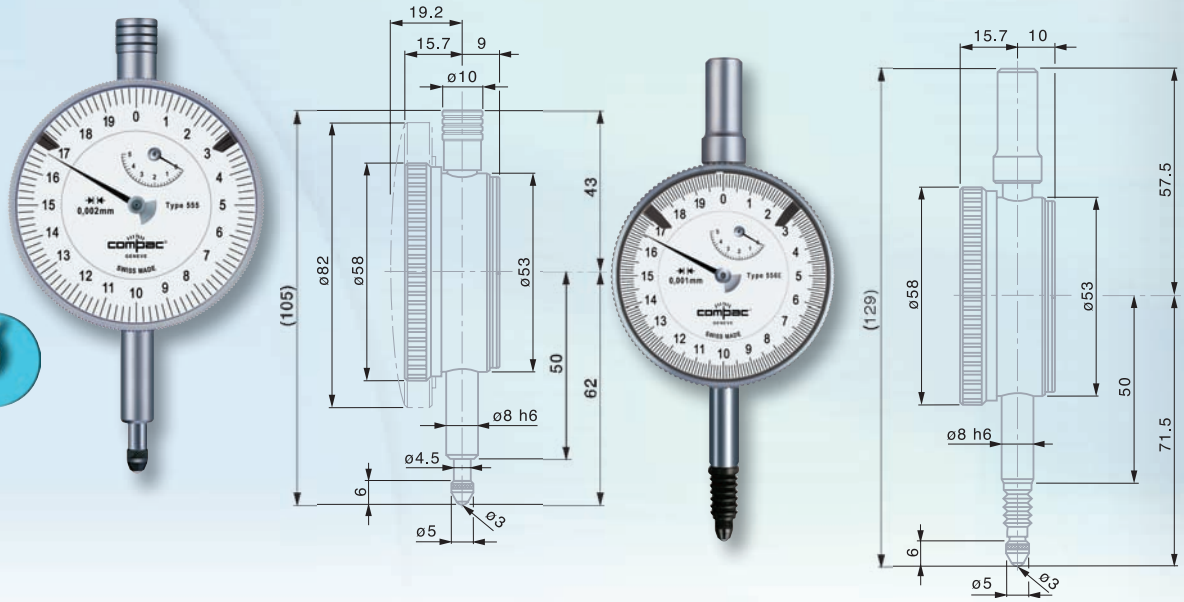
	mm	mm	mm	mm	mm		Total reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
532	0.01	58	10	10.5	1	0 ÷ 50 ÷ 100	17	3	3	≤ 1.5
532 LEFT	0.01	58	10	10.5	1	100 ÷ 50 ÷ 0	17	3	3	≤ 1.5
532B	0.01	58	10	10.5	1	0 ÷ 50 ÷ 100	17	3	3	≤ 1.5
532B LEFT	0.01	58	10	10.5	1	100 ÷ 50 ÷ 0	17	3	3	≤ 1.5
532G	0.01	82	10	10.5	1	0 ÷ 50 ÷ 100	17	3	3	≤ 1.5
532GB	0.01	82	10	10.5	1	0 ÷ 50 ÷ 100	17	3	3	≤ 1.5
532E	0.01	58	10	10.5	1	0 ÷ 50 ÷ 100	17	3	3	≤ 2
532S	0.01	58	±0.4	4	(1.27)	40 ÷ 0 ÷ 40	9	3	3	≤ 1
532ST	0.01	58	±0.4	4	(1.27)	40 ÷ 0 ÷ 40	9	3	3	≤ 1
533S	0.01	58	±0.5	4	(1.27)	50 ÷ 0 ÷ 50	9	3	3	≤ 1
533SB	0.01	58	±0.5	4	(1.27)	50 ÷ 0 ÷ 50	9	3	3	≤ 1

Inch models

	in	mm	*in*	*in*	*in*		Total reading error (*in*)	Repeat-ability *in*	Hyste-resis *in*	N
533A	*.0005*	58	*.400*	*.420*	*.050*	*0 ÷ 25 ÷ 50*	*.0007*	*.00015*	*.00015*	*≤ 1.5*
533AB	*.0005*	58	*.400*	*.420*	*.050*	*0 ÷ 25 ÷ 50*	*.0007*	*.00015*	*.00015*	*≤ 1.5*
533AG	*.0005*	82	*.400*	*.420*	*.050*	*0 ÷ 25 ÷ 50*	*.0007*	*.00015*	*.00015*	*≤ 1.5*
533AGB	*.0005*	82	*.400*	*.420*	*.050*	*0 ÷ 25 ÷ 50*	*.0007*	*.00015*	*.00015*	*≤ 1.5*
533AE	*.0005*	58	*.400*	*.420*	*.050*	*0 ÷ 25 ÷ 50*	*.0007*	*.00015*	*.00015*	*≤ 2*
533AS	*.0005*	58	*± .020*	*.155*	*(.050)*	*20 ÷ 0 ÷ 20*	*.00035*	*.00015*	*.00015*	*≤ 1*
533ASB	*.0005*	58	*± .020*	*.155*	*(.050)*	*20 ÷ 0 ÷ 20*	*.00035*	*.00015*	*.00015*	*≤ 1*

B: With bezel lock.
E: Watertight as per DIN 40050, IP64.
G: Large dial having a 82 mm diameter.
S: Models with a reduced range, balanced reading. Since the pointer travels less than one revolution, all reading errors due to the revolution counter are eliminated.
T: The short pointer, which moves along with the reading pointer, continuously indicates the highest value of the measured quantity. Both are attached in the middle of the dial. Ideal for checking axial and radial runouts.

58/82 mm Diameter Dial Gages Series 550, reading to 0.002/0.001 mm



Metric models

							Total reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
	mm	mm	mm	mm	mm					
555	0.002	58	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
555B	0.002	58	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
555E	0.002	58	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.7
555G	0.002	82	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
555GB	0.002	82	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
556	0.001	58	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
556B	0.001	58	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
556E	0.001	58	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.7
556G	0.001	82	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
556GB	0.001	82	5	5.3	0.2	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5

Inch models

							Total reading error *(in)*	Repeat-ability *in*	Hyste-resis *in*	N
	in	mm	*in*	*in*	*in*					
555A	*.0001*	58	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
555AB	*.0001*	58	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
555AE	*.0001*	58	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.7*
555AG	*.0001*	82	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
555AGB	*.0001*	82	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
556A	*.00005*	58	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
556AB	*.00005*	58	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
556AE	*.00005*	58	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.7*
556AG	*.00005*	82	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*
556AGB	*.00005*	82	*.200*	*.210*	*.010*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*

✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Ajustable tolerance markers (models with a 58 mm dial diameter only).
M2,5 coupling thread for contact point.

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

Inspection report with a declaration of conformity

B: With bezel lock.
E: Watertight as per DIN 40050, IP64.
G: Large dial having a 82 mm diameter.

58/82 mm Diameter Dial Gages Series 560, reading to 0.002/0.001 mm

✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

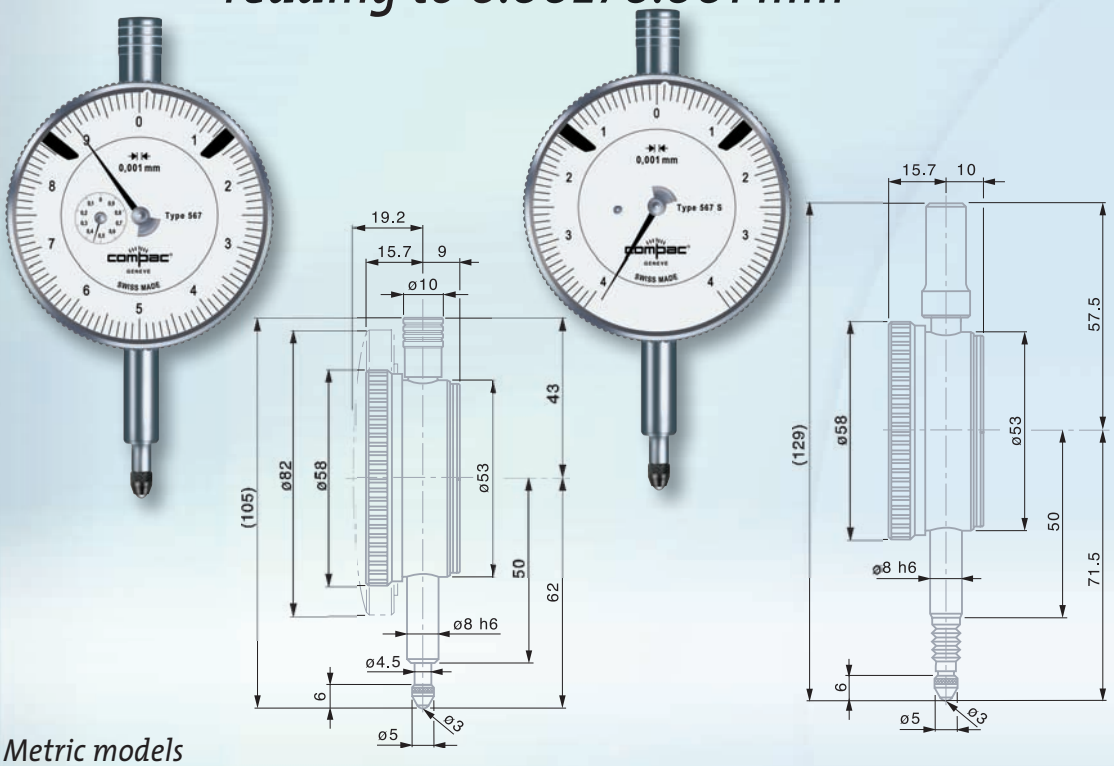
Ajustable tolerance markers (models with a 58 mm dial diameter only).
M2,5 coupling thread for contact point.

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

Inspection report with a declaration of conformity



Metric models

	mm	mm	mm	mm	mm		Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
565S	0.002	58	±0.08	3.3	(0.2)	8 ÷ 0 ÷ 8	3	1	1	≤ 1.5
565SB	0.002	58	±0.08	3.3	(0.2)	8 ÷ 0 ÷ 8	3	1	1	≤ 1.5
565SE	0.002	58	±0.08	3.3	(0.2)	8 ÷ 0 ÷ 8	3	1	1	≤ 1.7
567	0.001	58	1	3.3	0.1	0 ÷ 5 ÷ 10	5	1	1	≤ 1.5
567B	0.001	58	1	3.3	0.1	0 ÷ 5 ÷ 10	5	1	1	≤ 1.5
567E	0.001	58	1	3.3	0.1	0 ÷ 5 ÷ 10	5	1	1	≤ 1.7
567S	0.001	58	±0.04	3.3	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.5
567SB	0.001	58	±0.04	3.3	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.5
567SE	0.001	58	±0.04	3.3	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.7
567SG	0.001	82	±0.04	3.3	(0.1)	4 ÷ 0 ÷ 4	2	0.8	0.8	≤ 1.5

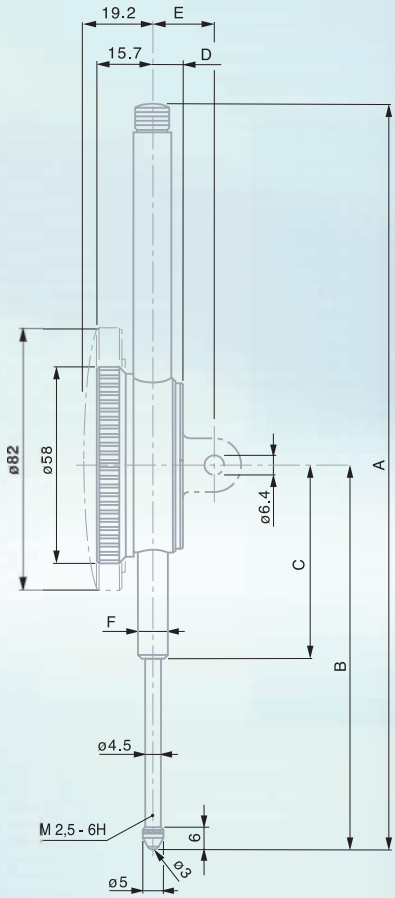
Inch models

	in	mm	*in*	*in*	*in*		Total Reading error *(in)*	Repeat-ability *in*	Hyste-resis *in*	N
567A	*.00005*	58	*.050*	*.130*	*.005*	*0 ÷ 2.5 ÷ 5*	*.0002*	*.00004*	*.00004*	*≤ 1.5*
567AB	*.00005*	58	*.050*	*.130*	*.005*	*0 ÷ 2.5 ÷ 5*	*.0002*	*.00004*	*.00004*	*≤ 1.5*
567AE	*.00005*	58	*.050*	*.130*	*.005*	*0 ÷ 2.5 ÷ 5*	*.0002*	*.00004*	*.00004*	*≤ 1.7*
567AS	*.00005*	58	*±.002*	*.130*	*(.005)*	*2 ÷ 0 ÷ 2*	*.0001*	*.00003*	*.00003*	*≤ 1.5*
567ASB	*.00005*	58	*±.002*	*.130*	*(.005)*	*2 ÷ 0 ÷ 2*	*.0001*	*.00003*	*.00003*	*≤ 1.5*
567ASE	*.00005*	58	*±.002*	*.130*	*(.005)*	*2 ÷ 0 ÷ 2*	*.0001*	*.00003*	*.00003*	*≤ 1.7*

B: With bezel lock.
E: Watertight as per DIN 40050, IP64.
G: Large dial having a 82 mm diameter.
S: Models with a reduced range, balanced reading. Since the pointer travels less than one revolution, all reading errors due to the revolution counter are eliminated.

58/82 mm Dial Gages with Long Range, Series 700





✓

DIN 878, NF E 11-050, factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Ajustable tolerance markers (models with a 58 mm dial diameter only). M2,5 coupling thread for contact point. Revolution counter in the middle

Contact point with a 3 mm dia. ball tip, already mounted

Cardboard box

Serial number

Inspection report with a declaration of conformity

	∅ 58 mm	∅ 82 mm	∅ 58/82 mm			
mm	30 mm *1 in*	30 mm *1 in*	50 mm *2 in*	100 mm *4 in*	150 mm *6 in*	200 mm *8 in*
A	148	158	228	390	599	752
B	88	98	117.2	211.6	355	437
C	50	60	60	103.6	150	150
D	10	10	9	9	10.4	10.4
E	20	20	19	19	20.2	20.2
F	∅ 8h6	∅ 8h6	∅ 8h6	∅ 8h6	∅ 12	∅ 12

Reading to 0.1 mm – Metric models

							Total Reading error (μm)	Repeat-ability μm	Hyste-resis μm	N
	mm	mm	mm	mm	mm					
711	0.1	58	30	30.5	5	0 ÷ 2.5 ÷ 5	40	3	10	≤ 2.2
711B	0.1	58	30	30.5	5	0 ÷ 2.5 ÷ 5	40	3	10	≤ 2.2
711G	0.1	82	30	30.5	5	0 ÷ 2.5 ÷ 5	40	3	10	≤ 2.2
711GB	0.1	82	30	30.5	5	0 ÷ 2.5 ÷ 5	40	3	10	≤ 2.2
721	0.1	58	50	50.5	5	0 ÷ 2.5 ÷ 5	50	3	10	≤ 2.5
721B	0.1	58	50	50.5	5	0 ÷ 2.5 ÷ 5	50	3	10	≤ 2.5
721G	0.1	82	50	50.5	5	0 ÷ 2.5 ÷ 5	50	3	10	≤ 2.5
721GB	0.1	82	50	50.5	5	0 ÷ 2.5 ÷ 5	50	3	10	≤ 2.5
731	0.1	58	100	100.5	5	0 ÷ 2.5 ÷ 5	60	3	10	≤ 3.2
731B	0.1	58	100	100.5	5	0 ÷ 2.5 ÷ 5	60	3	10	≤ 3.2
731G	0.1	82	100	100.5	5	0 ÷ 2.5 ÷ 5	60	3	10	≤ 3.2
731GB	0.1	82	100	100.5	5	0 ÷ 2.5 ÷ 5	60	3	10	≤ 3.2

Reading to 0.01 mm

Metric models

							Total Reading error (μm)	Repeat-ability μm	Hyste-resis μm	N
	mm	mm	mm	mm	mm					
712	0.01	58	30	30.5	1	0 ÷ 50 ÷ 100	25	3	5	≤ 2.2
712B	0.01	58	30	30.5	1	0 ÷ 50 ÷ 100	25	3	5	≤ 2.2
712B LEFT	0.01	58	30	30.5	1	100 ÷ 50 ÷ 0	25	3	5	≤ 2.2
712G	0.01	82	30	30.5	1	0 ÷ 50 ÷ 100	25	3	5	≤ 2.2
712GB	0.01	82	30	30.5	1	0 ÷ 50 ÷ 100	25	3	5	≤ 2.2
722	0.01	58	50	50.5	1	0 ÷ 50 ÷ 100	30	3	5	≤ 2.5
722B	0.01	58	50	50.5	1	0 ÷ 50 ÷ 100	30	3	5	≤ 2.5
722B LEFT	0.01	58	50	50.5	1	100 ÷ 50 ÷ 0	30	3	5	≤ 2.5
722G	0.01	82	50	50.5	1	0 ÷ 50 ÷ 100	30	3	5	≤ 2.5
722GB	0.01	82	50	50.5	1	0 ÷ 50 ÷ 100	30	3	5	≤ 2.5
732	0.01	58	100	100.5	1	0 ÷ 50 ÷ 100	35	3	8	≤ 3.2
732B	0.01	58	100	100.5	1	0 ÷ 50 ÷ 100	35	3	8	≤ 3.2
732G	0.01	82	100	100.5	1	0 ÷ 50 ÷ 100	35	3	8	≤ 3.2
732GB	0.01	82	100	100.5	1	0 ÷ 50 ÷ 100	35	3	8	≤ 3.2
742G	0.01	82	150	150.5	1	0 ÷ 50 ÷ 100	40	3	10	≤ 4
752G	0.01	82	200	200.5	1	0 ÷ 50 ÷ 100	50	3	10	≤ 4

Inch models

							Total Reading error *(in)*	Repeat-ability *in*	Hyste-resis *in*	N
	in	mm	*in*	*in*	*in*					
713A	*.0005*	58	*1*	*1.02*	*.05*	*0 ÷ 25 ÷ 50*	*.001*	*.00015*	*.0002*	*≤ 2.2*
713AB	*.0005*	58	*1*	*1.02*	*.05*	*0 ÷ 25 ÷ 50*	*.001*	*.00015*	*.0002*	*≤ 2.2*
713AG	*.0005*	82	*1*	*1.02*	*.05*	*0 ÷ 25 ÷ 50*	*.001*	*.00015*	*.0002*	*≤ 2.2*
713AGB	*.0005*	82	*1*	*1.02*	*.05*	*0 ÷ 25 ÷ 50*	*.001*	*.00015*	*.0002*	*≤ 2.2*
723A	*.0005*	58	*2*	*2.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0012*	*.00015*	*.0002*	*≤ 2.5*
723AB	*.0005*	58	*2*	*2.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0012*	*.00015*	*.0002*	*≤ 2.5*
723AG	*.0005*	82	*2*	*2.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0012*	*.00015*	*.0002*	*≤ 2.5*
723AGB	*.0005*	82	*2*	*2.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0012*	*.00015*	*.0002*	*≤ 2.5*
733A	*.0005*	58	*4*	*4.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0014*	*.00015*	*.0003*	*≤ 3.2*
733AB	*.0005*	58	*4*	*4.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0014*	*.00015*	*.0003*	*≤ 3.2*
733AG	*.0005*	82	*4*	*4.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0014*	*.00015*	*.0003*	*≤ 3.2*
733AGB	*.0005*	82	*4*	*4.02*	*.05*	*0 ÷ 25 ÷ 50*	*.0014*	*.00015*	*.0003*	*≤ 3.2*

B: With bezel lock.
G: Large dial having a 82 mm diameter.

Dial Gages with electrical contacts, Type CL

Type CL2

Consists of a mechanical dial gage combined with an element featuring 2 electrical contacts. Can be used in conjunction with the amplifying unit R43 (No. 044285).

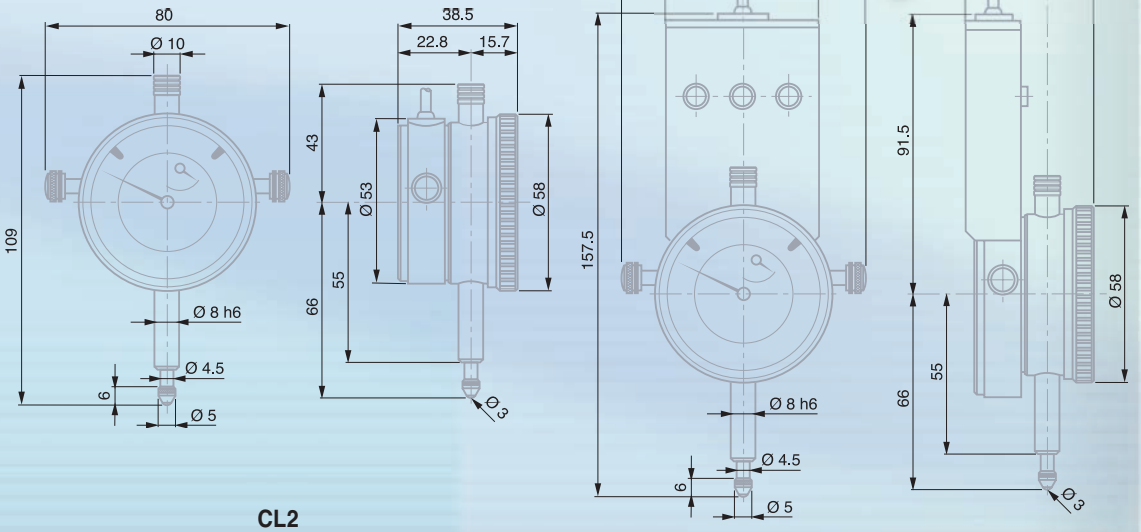
Type CL4

Measuring unit with the following components included:

- Mechanical dial gage.
- Element fitted with 2 electrical contacts for setting tolerances.
- Electronic amplifying unit controlling 3 color signals for value classification with red for scrap, green for good and yellow for rework.
- Power supply: 12 V AC through the R13 type transformer.







CL2

✓ Factory standard

Rotating dial

Full-metal housing. Plunger and stem with a 8h6 dia. in stainless steel, hardened and ground

Shockproof system to protect the movement

Adjustable tolerance markers on models with a 58 mm dia. dial.
M2,5 thread for contact point.
Revolution counter in the middle

Contact point with a 3 mm dia. ball tip, already mounted

Contact accuracy: 0,001 mm.
Current passing through the contacts: 10 µA, 12 V.
Response time: 0,1 s.
Power supply for CL4: 12 V, 50 Hz, 60 mA

Cardboard box

Serial number

Declaration of conformity

Metric models

	mm	mm	mm	Tolerance Setting mm		Total Reading error (µm)	Repeat-ability µm	Hyste-resis µm	N
CL2532	0.01	58	3	0.5 ÷ 1.5	0 ÷ 50 ÷ 100	17	3	3	≤ 1.5
CL2532G	0.01	82	3	0.5 ÷ 1.5	0 ÷ 50 ÷ 100	17	3	3	≤ 1.5
CL2555	0.002	58	3	0.5 ÷ 1.5	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5
CL2556	0.001	58	3	0.5 ÷ 1.5	0 ÷ 10 ÷ 20	14	1.5	2	≤ 1.5

Inch models

	in	mm	*in*	Tolerance Setting *in*		Total Reading error *(in)*	Repeta-ability *in*	Hyste-resis *in*	N
CL2533A	*.0005*	58	*.120*	*.020 ÷ .060*	*0 ÷ 25 ÷ 50*	*.0007*	*.00015*	*.00015*	*≤ 1.5*
CL2555A	*.0001*	58	*.120*	*.020 ÷ .060*	*0 ÷ 5 ÷ 10*	*.00055*	*.00006*	*.00008*	*≤ 1.5*

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